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Two 20-in gate valves = $2 \times 20 \times 8 = 320$ in of 20-in pipe
Three 20-in ball valves = $3 \times 20 \times 3 = 180$ in of 20-in pipe
One 20-in swing check valve = $1 \times 20 \times 50 = 1000$ in of 20-in pipe
Four 90 elbows = $4 \times 20 \times 30 = 2400$ in of 20-in pipe
Total for all valves and fittings = 4220 in of 20-in pipe = 351.67 ft of 20-in pipe
Adding the 2000 ft of straight pipe, the total equivalent length of straight pipe and all fittings is $L_e = 2000 + 351.67 = 2351.67$ ft

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A pipe system has a beginning, an ending, and a path between the two points. To transport the medium—liquid or gas—some definition of temperatures, pressures, amount to be transported per unit of time, and the energy required to accomplish the transport need to be, at least partially, established.

Piping and Pipeline Calculations Manual - Construction ...

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Piping Estimate & Summary

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design . NOVEMBER 2014. Rev May 1,
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Plumbing Design Manual - WBDG

Branch Length Method: Pipe shall be sized as follows: (See calculation example in "Figure A" and use steps 1 - 6 below) (A) The pipe size of each section of the longest pipe run from the meter to the most remote outlet shall be determined using the longest run of piping and the load of the section.

Gas Pipe Line Calculation Sizing For Steel Pipe

that pipe or equipment, someone will be - and their safety should always be in your mind when considering if all appropriate considerations have been made, and the calculations are accurate.

1.2 WHY IS PIPING ENGINEERING SO DIFFICULT? On the surface, pipe is pretty simple - a round bar with a hole in it to transport a fluid or gas.

Introduction to Piping Engineering

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The Piping or Mechanical Field Engineer is a direct contributor to the safety of the work operations at the construction site. Since all safe work operations must begin with preplanning, the Field Engineer makes a direct contribution to safety by reviewing the planned work with safety in mind.

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developed by OilGas engineers. It can be used to calculate liquid or gas flow pressure drop in pipes. This calculator employ the best pressure drop calculation method - Darcy-Weishach equation. The friction factor is calculated with Colebrook ...

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Calculation of minimum wall thickness of a given pipeline diameter and selection of actual thickness is one of the most important basic design considerations for any pipeline projects. This is one of the basic activities that is performed at the initial stages of any detailed design project. In this article, the pipeline wall thickness calculation methodology will be explained for

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